

1st Grade Lesson – Learning about Solids

Main Ideas/Concepts:

- Solids can be described by their properties
- Some properties of solids are color and shape
- The property of shape can have an affect on a solid's mobility

2nd Grade Lesson – Learning About Changes

Main Ideas/Concepts:

- The experiments are designed to illustrate the changes of solids, liquids, and gases through interactions.
- We encourage students to observe the evidence of these interactions using 4 of their 5 senses. We continually stress that “taste” is never used in science!
- We provide “lab notebooks” to encourage students to record their observations. In addition, the “lab notebooks” provide detailed instructions for the students to recreate the experiments at home.
- We provide protective equipment when appropriate during some experiments to illustrate proper laboratory safety.

3rd Grade Lesson – Learning About Algae

Main Ideas/Concepts:

- Macroscopic Observation – observe and describe 10 different alga specimens
- Microscopic Observation – create a slide to observe the detail make-up of an alga through a microscope
- Algae Facts and Fun Homework – learn interesting facts about algae through discussion and make an alga tube to observe the growth in the coming weeks (discuss importance of environment)

4th Grade Lesson – Learning about Bacteria

Main Ideas/Concepts:

5th Grade Lesson – Learning About Food Chemistry

Main Ideas/Concepts:

- Food is chemically broken down and give varying amounts of energy.
- Discover whether protein, fat, starch, or glucose are in 12 different foods including solids and liquids.
- Collaborate, as a class, the results discovered at each of the testing stations.

Related link to the 5th grade lesson:

http://kidshealth.org/kid/stay_healthy/food/protein_carb_fat.html